

ABSTRACT OF THE DISCLOSURE

A superconducting cable includes: a cable core having a superconducting conductor; a thermal insulation pipe accommodating the cable core and
5 functioning as a forward path of a coolant channel; and a coolant return pipe disposed beside the cable core in the thermal insulation pipe and functioning as a backward path of the coolant channel. A coolant is passed through a space formed between the thermal insulation pipe and the cable core/the coolant return pipe, and cools the cable core and the coolant return pipe. The
10 coolant that has cooled the cable core, etc., returns through the coolant return pipe. Thus, the heat loss of a coolant in the superconducting cable can be minimized, and the space needed for coolant piping can be made compact.